SEQUENCE LISTING

<110> Fletchner, Jessica
Prince-Cohane, Kenya
Mehta, Sunil
Slusarewicz, Paul
Andjelic, Sofija
Barber, Brian

<120> HEAT SHOCK PROTEIN-BASED VACCINES AND IMMUNOTHERAPIES

<130> 8449-405-999

<140> 10/776,521
<141> 2004-02-12

<150> 60/503,417
<151> 2003-09-16

<150> 60/463,746
<151> 2003-04-18

<150> 60/462,469
<151> 2003-04-11

<150> 60/447,142
<151> 2003-02-13

<160> 419

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 4
<212> PRT
<213> Malaria

<400> 1
Asn Ala Asn Pro
1

<210> 2
<211> 9
<212> PRT
<213> Unknown

<220>
<223> HLA-A2 peptide binding motif

<221> VARIANT
<222> 2
<223> Xaa = Leu or Met

<221> VARIANT
<222> 6
<223> Xaa = Val or Ile or Leu or Thr

<221> VARIANT

<222> 9
<223> Xaa = Val or Leu

<221> VARIANT
<222> 1,3 , 4, 5, 7, 8
<223> Xaa = any amino acid

<400> 2
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 3
<211> 9
<212> PRT
<213> Unknown

<220>
<223> HLA-A2 peptide binding motif

<221> VARIANT
<222> 2
<223> Xaa = Leu or Met

<221> VARIANT
<222> 1, 3, 4, 5, 6, 7, 8
<223> Xaa = any amino acid

<400> 3
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val
 1   5

<210> 4
<211> 8
<212> PRT
<213> Unknown

<220>
<223> HLA-A2 peptide binding motif

<221> VARIANT
<222> 2
<223> Xaa = Val or Gln

<221> VARIANT
<222> 1, 3, 4, 5, 6, 7, 8
<223> Xaa = any amino acid

<400> 4
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu
 1   5

<210> 5
<211> 5
<212> PRT
<213> Unknown

<220>

<223> HLA-DR peptide binding motif

<400> 5
Gln Lys Arg Ala Ala
 1   5

<210> 6
<211> 5
<212> PRT
<213> Unknown

<220>
<223> HLA-DR peptide binding motif

<400> 6
Arg Arg Arg Ala Ala
 1   5

<210> 7
<211> 7
<212> PRT
<213> Unknown

<220>
<223> motif in heptamiric region recognized by heat
      shock protein

<221> VARIANT
<222> 2
<223> Xaa = Trp or any amino acid

<221> VARIANT
<222> 1, 3, 5, 7
<223> Xaa = hydrophobic amino acid residues

<221> VARIANT
<222> 4, 6
<223> Xaa = any amino acid

<400> 7
Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 8
<211> 7
<212> PRT
<213> Unknown

<220>
<223> motif in heptamiric region recognized by heat
      shock protein

<221> VARIANT
<222> 2
<223> Xaa = Trp or any amino acid

<221> VARIANT
<222> 1, 3, 5, 7,

<223> Xaa = hydrophobic amino acid residue, particularly
tryptophan, leucine or phenylalanine

<221> VARIANT
<222> 4, 6
<223> Xaa = any amino acid

<400> 8
Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 9
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> mutated heat shock protei peptide

<400> 9
Lys Asp Glu Leu
1

<210> 10
<211> 10
<212> PRT
<213> Adeno Virus

<400> 10
Ser Gly Pro Ser Asn Thr Pro Pro Glu Ile
1 5 10

<210> 11
<211> 11
<212> PRT
<213> Lymphocytic Choriomeningitis Virus (LCMV)

<400> 11
Ser Gly Val Glu Asn Pro Gly Gly Tyr Cys Leu
1 5 10

<210> 12
<211> 10
<212> PRT
<213> Lymphocytic Choriomeningitis Virus (LCMV)

<400> 12
Lys Ala Val Tyr Asn Phe Ala Thr Cys Gly
1 5 10

<210> 13
<211> 9
<212> PRT
<213> Lymphocytic Choriomeningitis Virus (LCMV)

<400> 13
Arg Pro Gln Ala Ser Gly Val Tyr Met

1 5

<210> 14
<211> 9
<212> PRT
<213> Lymphocytic Choriomeningitis Virus (LCMV)

<400> 14
Phe Gln Pro Gln Asn Gly Gln Phe Ile
1 5

<210> 15
<211> 9
<212> PRT
<213> Influenza Virus

<400> 15
Ile Glu Gly Gly Trp Thr Gly Met Ile
1 5

<210> 16
<211> 10
<212> PRT
<213> Influenza Virus

<400> 16
Thr Tyr Val Ser Val Ser Thr Ser Thr Leu
1 5 10

<210> 17
<211> 8
<212> PRT
<213> Influenza Virus

<400> 17
Phe Glu Ala Asn Gly Asn Leu Ile
1 5

<210> 18
<211> 9
<212> PRT
<213> Influenza Virus

<400> 18
Ile Tyr Ser Thr Val Ala Ser Ser Leu
1 5

<210> 19
<211> 9
<212> PRT
<213> Influenza Virus

<400> 19
Thr Tyr Gln Arg Thr Arg Ala Leu Val

1 5

<210> 20
<211> 9
<212> PRT
<213> Influenza Virus

<400> 20
Cys Thr Glu Leu Lys Leu Ser Asp Tyr
1 5

<210> 21
<211> 8
<212> PRT
<213> Influenza Virus

<400> 21
Ser Asp Tyr Glu Gly Arg Leu Ile
1 5

<210> 22
<211> 9
<212> PRT
<213> Influenza Virus

<400> 22
Glu Glu Gly Ala Ile Val Gly Glu Ile
1 5

<210> 23
<211> 9
<212> PRT
<213> Influenza Virus

<400> 23
Val Ser Asp Gly Gly Pro Asn Leu Tyr
1 5

<210> 24
<211> 9
<212> PRT
<213> Influenza Virus

<400> 24
Ala Ser Asn Glu Asn Met Glu Thr Met
1 5

<210> 25
<211> 9
<212> PRT
<213> Influenza Virus

<400> 25
Ala Ser Asn Glu Asn Met Asp Ala Met
1 5

<210> 26
<211> 10
<212> PRT
<213> Influenza Virus

<400> 26
Lys Leu Gly Glu Phe Tyr Asn Gln Met Met
 1   5   10

<210> 27
<211> 9
<212> PRT
<213> Influenza Virus

<400> 27
Leu Tyr Gln Asn Val Gly Thr Tyr Val
 1   5

<210> 28
<211> 10
<212> PRT
<213> Influenza Virus

<400> 28
Thr Tyr Val Ser Val Gly Thr Ser Thr Leu
 1   5   10

<210> 29
<211> 8
<212> PRT
<213> Influenza Virus

<400> 29
Phe Glu Ser Thr Gly Asn Leu Ile
 1   5

<210> 30
<211> 9
<212> PRT
<213> Influenza Virus

<400> 30
Val Tyr Gln Ile Leu Ala Ile Tyr Ala
 1   5

<210> 31
<211> 9
<212> PRT
<213> Influenza Virus

<400> 31
Ile Tyr Ala Thr Val Ala Gly Ser Leu
 1   5

<210> 32
<211> 9
<212> PRT
<213> Influenza Virus

<400> 32
Gly Ile Leu Gly Phe Val Phe Thr Leu
 1   5

<210> 33
<211> 10
<212> PRT
<213> Influenza Virus

<400> 33
Ile Leu Gly Phe Val Phe Thr Leu Thr Val
 1   5   10

<210> 34
<211> 9
<212> PRT
<213> Influenza Virus

<400> 34
Ile Leu Arg Gly Ser Val Ala His Lys
 1   5

<210> 35
<211> 9
<212> PRT
<213> Influenza Virus

<400> 35
Glu Asp Leu Arg Val Leu Ser Phe Ile
 1   5

<210> 36
<211> 9
<212> PRT
<213> Influenza Virus

<400> 36
Glu Leu Arg Ser Arg Tyr Trp Ala Ile
 1   5

<210> 37
<211> 9
<212> PRT
<213> Influenza Virus
<400> 37
Ser Arg Tyr Trp Ala Ile Arg Thr Arg
 1   5

<210> 38

<211> 9
<212> PRT
<213> Influenza Virus

<400> 38
Lys Thr Gly Gly Pro Ile Tyr Lys Arg
 1   5

<210> 39
<211> 9
<212> PRT
<213> Sendai Virus

<400> 39
Phe Ala Pro Gly Asn Tyr Pro Ala Leu
 1   5

<210> 40
<211> 9
<212> PRT
<213> Measles Virus

<400> 40
Arg Arg Tyr Pro Asp Ala Val Tyr Leu
 1   5

<210> 41
<211> 9
<212> PRT
<213> Measles Virus

<400> 41
Asp Pro Val Ile Asp Arg Leu Tyr Leu
 1   5

<210> 42
<211> 9
<212> PRT
<213> Measles Virus

<400> 42
Ser Pro Gly Arg Ser Phe Ser Tyr Phe
 1   5

<210> 43
<211> 9
<212> PRT
<213> Measles Virus

<400> 43
Tyr Pro Ala Leu Gly Leu His Glu Phe
 1   5

<210> 44
<211> 8

<212> PRT
<213> Polio Virus

<400> 44
Thr Tyr Lys Asp Thr Val Gln Leu
 1   5

<210> 45
<211> 10
<212> PRT
<213> Polio Virus

<400> 45
Phe Tyr Asp Gly Phe Ser Lys Val Pro Leu
 1   5   10

<210> 46
<211> 11
<212> PRT
<213> Human Cytomegalovirus (HCMV)

<400> 46
Phe Ile Ala Gly Asn Ser Ala Tyr Glu Tyr Val
 1   5   10

<210> 47
<211> 9
<212> PRT
<213> Mouse Cytomegalovirus (MCMV)

<400> 47
Tyr Pro His Phe Met Pro Thr Asn Leu
 1   5

<210> 48
<211> 9
<212> PRT
<213> Coronavirus

<400> 48
Ala Pro Thr Ala Gly Ala Phe Phe Phe
 1   5

<210> 49
<211> 11
<212> PRT
<213> Hepatitis B Virus

<400> 49
Ser Thr Leu Pro Glu Thr Thr Val Val Arg Arg
 1   5   10

<210> 50
<211> 10
<212> PRT

<213> Hepatitis B Virus

<400> 50
Phe Leu Pro Ser Asp Phe Phe Pro Ser Val
 1   5   10

<210> 51
<211> 9
<212> PRT
<213> Hepatitis B Virus

<400> 51
Trp Leu Ser Leu Leu Val Pro Phe Val
 1   5

<210> 52
<211> 10
<212> PRT
<213> Hepatitis B Virus

<400> 52
Gly Leu Ser Pro Thr Val Trp Leu Ser Val
 1   5   10

<210> 53
<211> 9
<212> PRT
<213> Hepatitis C Virus

<400> 53
Asp Leu Met Gly Tyr Ile Pro Leu Val
 1   5

<210> 54
<211> 10
<212> PRT
<213> Hepatitis C Virus

<400> 54
Leu Met Gly Tyr Ile Pro Leu Val Gly Ala
 1   5   10

<210> 55
<211> 8
<212> PRT
<213> Hepatitis C Virus

<400> 55
Ala Ser Arg Cys Trp Val Ala Met
 1   5

<210> 56
<211> 10
<212> PRT
<213> Hepatitis C Virus

<400> 56
Lys Leu Val Ala Leu Gly Ile Asn Ala Val
 1   5   10

<210> 57
<211> 9
<212> PRT
<213> Epstein Barr Virus

<400> 57
Phe Leu Arg Gly Arg Ala Tyr Gly Leu
 1   5

<210> 58
<211> 9
<212> PRT
<213> Epstein Barr Virus

<400> 58
Arg Arg Ile Tyr Asp Leu Ile Glu Leu
 1   5

<210> 59
<211> 9
<212> PRT
<213> Epstein Barr Virus

<400> 59
Ile Val Thr Asp Phe Ser Val Ile Lys
 1   5

<210> 60
<211> 9
<212> PRT
<213> Epstein Barr Virus

<400> 60
Arg Arg Arg Trp Arg Arg Leu Thr Val
 1   5

<210> 61
<211> 10
<212> PRT
<213> Epstein Barr Virus

<400> 61
Glu Glu Asn Leu Leu Asp Phe Val Arg Phe
 1   5   10

<210> 62
<211> 9
<212> PRT
<213> Epstein Barr Virus

<400> 62
Cys Leu Gly Gly Leu Leu Thr Met Val
1 5

<210> 63
<211> 8
<212> PRT
<213> Herpes Simplex Virus

<400> 63
Ser Ser Ile Glu Phe Ala Arg Leu
1 5

<210> 64
<211> 11
<212> PRT
<213> Herpes Simplex Virus

<400> 64
Leu Tyr Arg Thr Phe Ala Gly Asn Pro Arg Ala
1 5 10

<210> 65
<211> 9
<212> PRT
<213> Herpes Simplex Virus

<400> 65
Asp Tyr Ala Thr Leu Gly Val Gly Val
1 5

<210> 66
<211> 9
<212> PRT
<213> Human Papilloma Virus

<400> 66
Leu Leu Leu Gly Thr Leu Asn Ile Val
1 5

<210> 67
<211> 9
<212> PRT
<213> Human Papilloma Virus

<400> 67
Leu Leu Met Gly Thr Leu Gly Ile Val
1 5

<210> 68
<211> 9
<212> PRT
<213> Human Papilloma Virus

<400> 68
Thr Leu Gln Asp Ile Val Leu His Leu
 1   5

<210> 69
<211> 9
<212> PRT
<213> Human Papilloma Virus

<400> 69
Gly Leu His Cys Tyr Glu Gln Leu Val
 1   5

<210> 70
<211> 9
<212> PRT
<213> Human Papilloma Virus

<400> 70
Pro Leu Lys Gln His Phe Gln Ile Val
 1   5

<210> 71
<211> 9
<212> PRT
<213> Human Papilloma Virus

<400> 71
Arg Leu Val Thr Leu Lys Asp Ile Val
 1   5

<210> 72
<211> 9
<212> PRT
<213> Human Papilloma Virus

<400> 72
Arg Ala His Tyr Asn Ile Val Thr Phe
 1   5

<210> 73
<211> 9
<212> PRT
<213> Human T-cell Leukemia Virus

<400> 73
Leu Leu Phe Gly Tyr Pro Val Tyr Val
 1   5

<210> 74
<211> 10
<212> PRT
<213> Simian Virus 40

<400> 74

Ser Ala Ile Asn Asn Tyr Ala Gln Lys Leu
1 5 10

<210> 75
<211> 9
<212> PRT
<213> Human Immunodeficiency Virus

<400> 75
His Gln Ala Ile Ser Pro Arg Thr Leu
1 5

<210> 76
<211> 12
<212> PRT
<213> Human Immunodeficiency Virus

<400> 76
Gln Met Val His Gln Ala Ile Ser Pro Arg Thr Leu
1 5 10

<210> 77
<211> 9
<212> PRT
<213> Simian Virus 40

<400> 77
Cys Lys Gly Val Asn Lys Glu Tyr Leu
1 5

<210> 78
<211> 9
<212> PRT
<213> Simian Virus 40

<400> 78
Gln Gly Ile Asn Asn Leu Asp Asn Leu
1 5

<210> 79
<211> 9
<212> PRT
<213> Simian Virus 40

<400> 79
Asn Asn Leu Asp Asn Leu Arg Asp Tyr
1 5

<210> 80
<211> 9
<212> PRT
<213> Simian Virus 40

<400> 80
Ser Glu Phe Leu Leu Glu Lys Arg Ile

1 5

<210> 81
<211> 9
<212> PRT
<213> Raspiratory Syncytial Virus

<400> 81
Ser Tyr Ile Gly Ser Ile Asn Asn Ile
1 5

<210> 82
<211> 10
<212> PRT
<213> Human Immunodeficiency Virus

<400> 82
Ile Leu Gly Asn Lys Ile Val Arg Met Tyr
1 5 10

<210> 83
<211> 9
<212> PRT
<213> Human Immunodeficiency Virus

<400> 83
Arg Leu Arg Pro Gly Gly Lys Lys Lys
1 5

<210> 84
<211> 9
<212> PRT
<213> Human Immunodeficiency Virus

<400> 84
Glu Ile Lys Asp Thr Lys Glu Ala Leu
1 5

<210> 85
<211> 9
<212> PRT
<213> Human Immunodeficiency Virus

<400> 85
Gly Glu Ile Tyr Lys Arg Trp Ile Ile
1 5

<210> 86
<211> 9
<212> PRT
<213> Human Immunodeficiency Virus

<400> 86
Glu Ile Tyr Lys Arg Trp Ile Ile Leu
1 5

<210> 87
<211> 9
<212> PRT
<213> Human Immunodeficiency Virus

<400> 87
Arg Tyr Leu Lys Asp Gln Gln Leu Leu
 1   5

<210> 88
<211> 10
<212> PRT
<213> Human Immunodeficiency Virus

<400> 88
Arg Gly Pro Gly Arg Ala Phe Val Thr Ile
 1   5   10

<210> 89
<211> 9
<212> PRT
<213> Human Immunodeficiency Virus

<400> 89
Ile Val Gly Leu Asn Lys Ile Val Arg
 1   5

<210> 90
<211> 10
<212> PRT
<213> Human Immunodeficiency Virus

<400> 90
Thr Val Tyr Tyr Gly Val Pro Val Trp Lys
 1   5   10

<210> 91
<211> 11
<212> PRT
<213> Human Immunodeficiency Virus

<400> 91
Arg Leu Arg Asp Leu Leu Leu Ile Val Thr Arg
 1   5   10

<210> 92
<211> 10
<212> PRT
<213> Human Immunodeficiency Virus

<400> 92
Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys
 1   5   10

<210> 93
<211> 9
<212> PRT
<213> Human Immunodeficiency Virus

<400> 93
Ser Phe Asn Cys Gly Gly Glu Phe Phe
 1   5

<210> 94
<211> 9
<212> PRT
<213> Human Immunodeficiency Virus

<400> 94
Gly Arg Ala Phe Val Thr Ile Gly Lys
 1   5

<210> 95
<211> 10
<212> PRT
<213> Human Immunodeficiency Virus

<400> 95
Thr Pro Gly Pro Gly Val Arg Tyr Pro Leu
 1   5   10

<210> 96
<211> 10
<212> PRT
<213> Human Immunodeficiency Virus

<400> 96
Gln Val Pro Leu Arg Pro Met Thr Tyr Lys
 1   5   10

<210> 97
<211> 9
<212> PRT
<213> Human Immunodeficiency Virus

<400> 97
Thr Glu Met Glu Lys Glu Gly Lys Ile
 1   5

<210> 98
<211> 9
<212> PRT
<213> Human Immunodeficiency Virus

<400> 98
Ile Leu Lys Glu Pro Val His Gly Val
 1   5

<210> 99
<211> 9
<212> PRT
<213> Rabies Virus

<400> 99
Val Glu Ala Glu Ile Ala His Gln Ile
 1   5

<210> 100
<211> 8
<212> PRT
<213> Vesicular Stomatitis Virus

<400> 100
Arg Gly Tyr Val Tyr Gln Gly Leu
 1   5

<210> 101
<211> 9
<212> PRT
<213> Rotavirus

<400> 101
Tyr Ser Gly Tyr Ile Phe Arg Asp Leu
 1   5

<210> 102
<211> 9
<212> PRT
<213> Rotavirus

<400> 102
Val Gly Pro Val Phe Pro Pro Gly Met
 1   5

<210> 103
<211> 8
<212> PRT
<213> Rotavirus

<400> 103
Ile Ile Tyr Arg Phe Leu Leu Ile
 1   5

<210> 104
<211> 9
<212> PRT
<213> Listeria innocua

<400> 104
Lys Tyr Gly Val Ser Val Gln Asp Ile
 1   5

<210> 105

<211> 9
<212> PRT
<213> Yersinia pseudotuberculosis

<400> 105
Ile Gln Val Gly Asn Thr Arg Thr Ile
 1   5

<210> 106
<211> 9
<212> PRT
<213> E.coli

<400> 106
Thr Pro His Pro Ala Arg Ile Gly Leu
 1   5

<210> 107
<211> 9
<212> PRT
<213> P. falciparum

<400> 107
Ser Tyr Ile Pro Ser Ala Glu Lys Ile
 1   5

<210> 108
<211> 8
<212> PRT
<213> P. falciparum

<400> 108
Lys Pro Lys Asp Glu Leu Asp Tyr
 1   5

<210> 109
<211> 8
<212> PRT
<213> P. falciparum

<400> 109
Lys Ser Lys Asp Glu Leu Asp Tyr
 1   5

<210> 110
<211> 8
<212> PRT
<213> P. falciparum

<400> 110
Lys Pro Asn Asp Lys Ser Leu Tyr
 1   5

<210> 111
<211> 10

<212> PRT
<213> P. falciparum

<400> 111
Lys Tyr Leu Lys Lys Ile Lys Asn Ser Leu
 1   5   10

<210> 112
<211> 9
<212> PRT
<213> P. falciparum

<400> 112
Tyr Glu Asn Asp Ile Glu Lys Lys Ile
 1   5

<210> 113
<211> 9
<212> PRT
<213> P. falciparum

<400> 113
Asn Tyr Asp Asn Ala Gly Thr Asn Leu
 1   5

<210> 114
<211> 9
<212> PRT
<213> P. falciparum

<400> 114
Asp Glu Leu Asp Tyr Glu Asn Asp Ile
 1   5

<210> 115
<211> 9
<212> PRT
<213> P. yoelii

<400> 115
Ser Tyr Val Pro Ser Ala Glu Gln Ile
 1   5

<210> 116
<211> 8
<212> PRT
<213> Homo sapiens

<400> 116
Phe Glu Gln Asn Thr Ala Gln Pro
 1   5

<210> 117

<211> 8

<212> PRT
<213> Homo sapiens

<400> 117
Phe Glu Gln Asn Thr Ala Gln Ala
 1   5

<210> 118
<211> 9
<212> PRT
<213> Homo sapiens

<400> 118
Glu Ala Asp Pro Thr Gly His Ser Tyr
 1   5

<210> 119
<211> 9
<212> PRT
<213> Homo sapiens

<400> 119
Glu Val Asp Pro Ile Gly His Leu Tyr
 1   5

<210> 120
<211> 9
<212> PRT
<213> Homo sapiens

<400> 120
Ala Ala Gly Ile Gly Ile Leu Thr Val
 1   5

<210> 121
<211> 9
<212> PRT
<213> Homo sapiens

<400> 121
Tyr Leu Glu Pro Gly Pro Val Thr Ala
 1   5

<210> 122
<211> 10
<212> PRT
<213> Homo sapiens

<400> 122
Ile Leu Asp Gly Thr Ala Thr Leu Arg Leu
 1   5   10

<210> 123
<211> 9
<212> PRT

<213> Homo sapiens

<400> 123
Met Leu Leu Ala Leu Leu Tyr Cys Leu
 1   5

<210> 124
<211> 9
<212> PRT
<213> Homo sapiens

<400> 124
Tyr Met Asn Gly Thr Met Ser Gln Val
 1   5

<210> 125
<211> 9
<212> PRT
<213> Homo sapiens

<400> 125
Leu Pro Tyr Leu Gly Trp Leu Val Phe
 1   5

<210> 126
<211> 9
<212> PRT
<213> Homo sapiens

<400> 126
Phe Gly Pro Tyr Lys Leu Asn Arg Leu
 1   5

<210> 127
<211> 8
<212> PRT
<213> Homo sapiens

<400> 127
Lys Ser Pro Trp Phe Thr Thr Leu
 1   5

<210> 128
<211> 10
<212> PRT
<213> Homo sapiens

<400> 128
Gly Pro Pro His Ser Asn Asn Phe Gly Tyr
 1   5   10

<210> 129
<211> 9
<212> PRT
<213> Homo sapiens

<400> 129
Ile Ser Thr Gln Asn His Arg Ala Leu
 1   5

<210> 130
<211> 10
<212> PRT
<213> Infleuenza Virus

<400> 130
Tyr Gly Ile Leu Gly Lys Val Phe Thr Leu
 1   5   10

<210> 131
<211> 9
<212> PRT
<213> Human Immunodeficiency Virus

<400> 131
Ser Leu Tyr Asn Thr Val Ala Thr Leu
 1   5

<210> 132
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 132
Gly Lys Trp Val Tyr Ile Gly Trp
 1   5

<210> 133
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 133
Ala Lys Arg Glu Thr Lys Gly Trp
 1   5

<210> 134
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal

Trp residue

<400> 134
Lys Trp Val His Leu Phe Gly Trp
1 5

<210> 135
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 135
Arg Leu Val Leu Val Leu Gly Trp
1 5

<210> 136
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 136
Trp Lys Trp Gly Ile Tyr Gly Trp
1 5

<210> 137
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 137
Ser Ser His Ala Ser Ala Gly Trp
1 5

<210> 138
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 138
Trp Gly Pro Trp Ser Phe Gly Trp
1 5

<210> 139
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 139
Ala Ile Pro Gly Lys Val Gly Trp
1 5

<210> 140
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 140
Arg Val His Asp Pro Ala Gly Trp
1 5

<210> 141
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 141
Arg Ser Val Ser Ser Phe Gly Trp
1 5

<210> 142
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 142
Leu Gly Thr Arg Lys Gly Gly Trp
1 5

<210> 143
<211> 8
<212> PRT

<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 143
Lys Asp Pro Leu Phe Asn Gly Trp
1 5

<210> 144
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 144
Leu Ser Gln His Thr Asn Gly Trp
1 5

<210> 145
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 145
Asn Arg Leu Leu Leu Thr Gly Trp
1 5

<210> 146
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 146
Tyr Pro Leu Trp Val Ile Gly Trp
1 5

<210> 147
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 147
Leu Leu Ile Ile Asp Arg Gly Trp
 1   5

<210> 148
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 148
Arg Val Ile Ser Leu Gln Gly Trp
 1   5

<210> 149
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 149
Glu Val Ser Arg Glu Asp Gly Trp
 1   5

<210> 150
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 150
Ser Ile Leu Arg Ser Thr Gly Trp
 1   5

<210> 151
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 151
Pro Gly Leu Val Trp Leu Gly Trp
 1   5

<210> 152
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 152
Val Lys Lys Leu Tyr Ile Gly Trp
1 5

<210> 153
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 153
Asn Asn Arg Leu Leu Asp Gly Trp
1 5

<210> 154
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 154
Ser Lys Gly Arg Trp Gly Gly Trp
1 5

<210> 155
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 155
Ile Arg Pro Ser Gly Ile Gly Trp
1 5

<210> 156
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 156
Ala Ser Leu Cys Pro Thr Gly Trp
1 5

<210> 157
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 157
Asp Val Pro Gly Leu Arg Gly Trp
1 5

<210> 158
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 158
Arg His Arg Glu Val Gln Gly Trp
1 5

<210> 159
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 159
Leu Ala Arg Lys Arg Ser Gly Trp
1 5

<210> 160
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 160

Ser Val Leu Asp His Val Gly Trp
1 5

<210> 161
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 161
Asn Leu Leu Arg Arg Ala Gly Trp
1 5

<210> 162
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 162
Ser Gly Ile Ser Ala Trp Gly Trp
1 5

<210> 163
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 163
Phe Tyr Phe Trp Val Arg Gly Trp
1 5

<210> 164
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 164
Lys Leu Phe Leu Pro Leu Gly Trp
1 5

<210> 165
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 165
Thr Pro Thr Leu Ser Asp Gly Trp
1 5

<210> 166
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 166
Thr His Ser Leu Ile Leu Gly Trp
1 5

<210> 167
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 167
Leu Leu Leu Leu Ser Arg Gly Trp
1 5

<210> 168
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal

Trp residue

<400> 168
Leu Leu Arg Val Arg Ser Gly Trp
1 5

<210> 169
<211> 8
<212> PRT

<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 169
Glu Arg Arg Ser Arg Gly Gly Trp
1 5

<210> 170
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 170
Arg Met Leu Gln Leu Ala Gly Trp
1 5

<210> 171
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 171
Arg Gly Trp Ala Asn Ser Gly Trp
1 5

<210> 172
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 172
Arg Pro Phe Tyr Ser Tyr Gly Trp
1 5

<210> 173
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 173
Ser Ser Ser Trp Asn Ala Gly Trp
1 5

<210> 174
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 174
Leu Gly His Leu Glu Glu Gly Trp
1 5

<210> 175
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 175
Ser Ala Val Thr Asn Thr Gly Trp
1 5

<210> 176
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 176
Leu Arg Arg Ala Ser Leu Trp
1 5

<210> 177
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 177
Leu Arg Arg Trp Ser Leu Trp
1 5

<210> 178
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 178
Lys Trp Val His Leu Phe Trp
1 5

<210> 179
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 179
Asn Arg Leu Leu Leu Thr Trp
1 5

<210> 180
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 180
Ala Arg Leu Leu Leu Thr Trp
1 5

<210> 181
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 181
Asn Ala Leu Leu Leu Thr Trp
1 5

<210> 182
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 182
Asn Arg Leu Ala Leu Thr Trp
1 5

<210> 183
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 183
Asn Leu Leu Arg Leu Thr Trp
1 5

<210> 184
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal

Trp residue

<400> 184
Asn Arg Leu Trp Leu Thr Trp
1 5

<210> 185
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 185
Asn Arg Leu Leu Leu Ala Trp
1 5

<210> 186
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 186
Phe Tyr Gln Leu Ala Leu Thr Trp
1 5

<210> 187
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 187
Phe Tyr Gln Leu Ala Leu Thr Trp
1 5

<210> 188
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 188
Arg Lys Leu Phe Phe Asn Leu Arg Trp
1 5

<210> 189
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 189
Arg Lys Leu Phe Phe Asn Leu Arg Trp
1 5

<210> 190
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 190
Lys Phe Glu Arg Gln Trp
1 5

<210> 191
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 191
Asn Ile Val Arg Lys Lys Lys Thr Arg
1 5

<210> 192
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 192
Arg Gly Tyr Val Tyr Gln Gly Leu Trp
1 5

<210> 193
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 193
Tyr Thr Leu Val Gln Pro Leu Trp
1 5

<210> 194
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 194
Thr Pro Asp Ile Thr Pro Lys Trp
1 5

<210> 195
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 195
Thr Tyr Pro Asp Leu Arg Tyr Trp
1 5

<210> 196
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 196
Asp Arg Thr His Ala Thr Ser Trp
1 5

<210> 197
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 197
Met Ser Thr Thr Phe Tyr Ser Trp
1 5

<210> 198
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 198
Tyr Gln His Ala Val Gln Thr Trp
1 5

<210> 199
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 199
Phe Pro Phe Ser Ala Ser Thr Trp
1 5

<210> 200
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 200
Ser Ser Phe Pro Pro Leu Asp Trp
1 5

<210> 201
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 201
Met Ala Pro Ser Pro Pro His Trp
1 5

<210> 202
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 202
Ser Ser Phe Pro Asp Leu Leu Trp
1 5

<210> 203
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 203
His Ser Tyr Asn Arg Leu Pro Trp
1 5

<210> 204
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 204
His Leu Thr His Ser Gln Arg Trp
1 5

<210> 205
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 205
Gln Ala Ala Gln Ser Arg Ser Trp
1 5

<210> 206
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 206
Phe Ala Thr His His Ile Gly Trp
1 5

<210> 207
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 207
Ser Met Pro Glu Pro Leu Ile Trp
1 5

<210> 208
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 208
Ile Pro Arg Tyr His Leu Ile Trp
1 5

<210> 209
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 209
Ser Ala Pro His Met Thr Ser Trp
1 5

<210> 210
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 210
Lys Ala Pro Val Trp Ala Ser Trp
1 5

<210> 211
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 211
Leu Pro His Trp Leu Leu Ile Trp
1 5

<210> 212
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 212

Ala Ser Ala Gly Tyr Gln Ile Trp
1 5

<210> 213
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 213
Val Thr Pro Lys Thr Gly Ser Trp
1 5

<210> 214
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 214
Glu His Pro Met Pro Val Leu Trp
1 5

<210> 215
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 215
Val Ser Ser Phe Val Thr Ser Trp
1 5

<210> 216
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 216
Ser Thr His Phe Thr Trp Pro Trp
1 5

<210> 217

<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 217
Gly Gln Trp Trp Ser Pro Asp Trp
1 5

<210> 218
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 218
Gly Pro Pro His Gln Asp Ser Trp
1 5

<210> 219
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 219
Asn Thr Leu Pro Ser Thr Ile Trp
1 5

<210> 220
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 220
His Gln Pro Ser Arg Trp Val Trp
1 5

<210> 221
<211> 8
<212> PRT
<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 221
Tyr Gly Asn Pro Leu Gln Pro Trp
1 5

<210> 222
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 222
Phe His Trp Trp Trp Gln Pro Trp
1 5

<210> 223
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 223
Ile Thr Leu Lys Tyr Pro Leu Trp
1 5

<210> 224
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 224
Phe His Trp Pro Trp Leu Phe Trp
1 5

<210> 225
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 225
Thr Ala Gln Asp Ser Thr Gly Trp

1 5

<210> 226
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 226
Phe His Trp Trp Trp Gln Pro Trp
1 5

<210> 227
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 227
Phe His Trp Trp Asp Trp Trp Trp
1 5

<210> 228
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 228
Glu Pro Phe Phe Arg Met Gln Trp
1 5

<210> 229
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 229
Thr Trp Trp Leu Asn Tyr Arg Trp
1 5

<210> 230
<211> 8

<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 230
Phe His Trp Trp Trp Gln Pro Trp
1 5

<210> 231
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 231
Gln Pro Ser His Leu Arg Trp Trp
1 5

<210> 232
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 232
Ser Pro Ala Ser Pro Val Tyr Trp
1 5

<210> 233
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 233
Phe His Trp Trp Trp Gln Pro Trp
1 5

<210> 234
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal

Trp residue

<400> 234
His Pro Ser Asn Gln Ala Ser Trp
1 5

<210> 235
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 235
Asn Ser Ala Pro Arg Pro Val Trp
1 5

<210> 236
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 236
Gln Leu Trp Ser Ile Tyr Pro Trp
1 5

<210> 237
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 237
Ser Trp Pro Phe Phe Asp Leu Trp
1 5

<210> 238
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 238
Asp Thr Thr Leu Pro Leu His Trp
1 5

<210> 239
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 239
Trp His Trp Gln Met Leu Trp Trp
1 5

<210> 240
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 240

Asp Ser Phe Arg Thr Pro Val Trp
1 5

<210> 241
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 241
Thr Ser Pro Leu Ser Leu Leu Trp
1 5

<210> 242
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 242
Ala Tyr Asn Tyr Val Ser Asp Trp
1 5

<210> 243
<211> 8

<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 243
Arg Pro Leu His Asp Pro Met Trp
1 5

<210> 244
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 244
Trp Pro Ser Thr Thr Leu Phe Trp
1 5

<210> 245
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 245
Ala Thr Leu Glu Pro Val Arg Trp
1 5

<210> 246
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 246
Ser Met Thr Val Leu Arg Pro Trp
1 5

<210> 247
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal

Trp residue

<400> 247
Gln Ile Gly Ala Pro Ser Trp Trp
1 5

<210> 248
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 248
Ala Pro Asp Leu Tyr Val Pro Trp
1 5

<210> 249
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 249
Arg Met Pro Pro Leu Leu Pro Trp
1 5

<210> 250
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 250
Ala Lys Ala Thr Pro Glu His Trp
1 5

<210> 251
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 251
Thr Pro Pro Leu Arg Ile Asn Trp

1 5

<210> 252
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 252
Leu Pro Ile His Ala Pro His Trp
1 5

<210> 253
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 253
Asp Leu Asn Ala Tyr Thr His Trp
1 5

<210> 254
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 254
Val Thr Leu Pro Asn Phe His Trp
1 5

<210> 255
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 255
Asn Ser Arg Leu Pro Thr Leu Trp
1 5

<210> 256
<211> 8

<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 256
Tyr Pro His Pro Ser Arg Ser Trp
1 5

<210> 257
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 257
Gly Thr Ala His Phe Met Tyr Trp
1 5

<210> 258
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 258
Tyr Ser Leu Leu Pro Thr Arg Trp
1 5

<210> 259
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 259
Leu Pro Arg Arg Thr Leu Leu Trp
1 5

<210> 260
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal

Trp residue

<400> 260
Thr Ser Thr Leu Leu Trp Lys Trp
1 5

<210> 261
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 261
Thr Ser Asp Met Lys Pro His Trp
1 5

<210> 262
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 262
Thr Ser Ser Tyr Leu Ala Leu Trp
1 5

<210> 263
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 263
Asn Leu Tyr Gly Pro His Asp Trp
1 5

<210> 264
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 264
Leu Glu Thr Tyr Thr Ala Ser Trp
1 5

<210> 265
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 265
Ala Tyr Lys Ser Leu Thr Gln Trp
1 5

<210> 266
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 266
Ser Thr Ser Val Tyr Ser Ser Trp
1 5

<210> 267
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 267
Glu Gly Pro Leu Arg Ser Pro Trp
1 5

<210> 268
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 268
Thr Thr Tyr His Ala Leu Gly Trp
1 5

<210> 269
<211> 8
<212> PRT

<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 269
Val Ser Ile Gly His Pro Ser Trp
1 5

<210> 270
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 270
Thr His Ser His Arg Pro Ser Trp
1 5

<210> 271
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 271
Ile Thr Asn Pro Leu Thr Thr Trp
1 5

<210> 272
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 272
Ser Ile Gln Ala His His Ser Trp
1 5

<210> 273
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 273
Leu Asn Trp Pro Arg Val Leu Trp
 1   5

<210> 274
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 274
Tyr Tyr Tyr Ala Pro Pro Pro Trp
 1   5

<210> 275
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 275
Ser Leu Trp Thr Arg Leu Pro Trp
 1   5

<210> 276
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 276
Asn Val Tyr His Ser Ser Leu Trp
 1   5

<210> 277
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 277
Asn Ser Pro His Pro Pro Thr Trp
 1   5

<210> 278
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 278
Val Pro Ala Lys Pro Arg His Trp
1 5

<210> 279
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 279
His Asn Leu His Pro Asn Arg Trp
1 5

<210> 280
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 280
Tyr Thr Thr His Arg Trp Leu Trp
1 5

<210> 281
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 281
Ala Val Thr Ala Ala Ile Val Trp
1 5

<210> 282
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 282
Thr Leu Met His Asp Arg Val Trp
1 5

<210> 283
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 283
Thr Pro Leu Lys Val Pro Tyr Trp
1 5

<210> 284
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 284
Phe Thr Asn Gln Gln Tyr His Trp
1 5

<210> 285
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 285
Ser His Val Pro Ser Met Ala Trp
1 5

<210> 286
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 286
His Thr Thr Val Tyr Gly Ala Trp
1 5

<210> 287
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 287
Thr Glu Thr Pro Tyr Pro Thr Trp
1 5

<210> 288
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 288
Leu Thr Thr Pro Phe Ser Ser Trp
1 5

<210> 289
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 289
Gly Val Pro Leu Thr Met Asp Trp
1 5

<210> 290
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 290
Lys Leu Pro Thr Val Leu Arg Trp
1 5

<210> 291
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 291
Cys Arg Phe His Gly Asn Arg Trp
1 5

<210> 292
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 292
Tyr Thr Arg Asp Phe Glu Ala Trp
1 5

<210> 293
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 293
Ser Ser Ala Ala Gly Pro Arg Trp
1 5

<210> 294
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 294
Ser Leu Ile Gln Tyr Ser Arg Trp
1 5

<210> 295
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<221> VARIANT
<222> 7
<223> Xaa = any amino acid

<400> 295
Asp Ala Leu Met Trp Pro Xaa Trp
1 5

<210> 296
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<221> VARIANT
<222> 3
<223> Xaa = any amino acid

<400> 296
Ser Ser Xaa Ser Leu Tyr Ile Trp
1 5

<210> 297
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 297
Phe Asn Thr Ser Thr Arg Thr Trp
1 5

<210> 298
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 298
Thr Val Gln His Val Ala Phe Trp
1 5

<210> 299
<211> 8

<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 299
Asp Tyr Ser Phe Pro Pro Leu Trp
1 5

<210> 300
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 300
Val Gly Ser Met Glu Ser Leu Trp
1 5

<210> 301
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<221> VARIANT
<222> 2, 6
<223> Xaa = any amino acid

<400> 301
Phe Xaa Pro Met Ile Xaa Ser Trp
1 5

<210> 302
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 302
Ala Pro Pro Arg Val Thr Met Trp
1 5

<210> 303
<211> 8
<212> PRT

<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 303
Ile Ala Thr Lys Thr Pro Lys Trp
1 5

<210> 304
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 304
Lys Pro Pro Leu Phe Gln Ile Trp
1 5

<210> 305
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 305
Tyr His Thr Ala His Asn Met Trp
1 5

<210> 306
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 306
Ser Tyr Ile Gln Ala Thr His Trp
1 5

<210> 307
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal

Trp residue

<400> 307
Ser Ser Phe Ala Thr Phe Leu Trp
1 5

<210> 308
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 308
Thr Thr Pro Pro Asn Phe Ala Trp
1 5

<210> 309
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 309
Ile Ser Leu Asp Pro Arg Met Trp
1 5

<210> 310
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 310
Ser Leu Pro Leu Phe Gly Ala Trp
1 5

<210> 311
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 311
Asn Leu Leu Lys Thr Thr Leu Trp
1 5

<210> 312
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 312
Asp Gln Asn Leu Pro Arg Arg Trp
1 5

<210> 313
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 313
Ser His Phe Glu Gln Leu Leu Trp
1 5

<210> 314
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 314
Thr Pro Gln Leu His His Gly Trp
1 5

<210> 315
<211> 8

<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 315
Ala Pro Leu Asp Arg Ile Thr Trp
1 5

<210> 316
<211> 8

<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 316
Phe Ala Pro Leu Ile Ala His Trp
1 5

<210> 317
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 317
Ser Trp Ile Gln Thr Phe Met Trp
1 5

<210> 318
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 318
Asn Thr Trp Pro His Met Tyr Trp
1 5

<210> 319
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 319
Glu Pro Leu Pro Thr Thr Leu Trp
1 5

<210> 320
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal

Trp residue

<400> 320
His Gly Pro His Leu Phe Asn Trp
1 5

<210> 321
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 321
Tyr Leu Asn Ser Thr Leu Ala Trp
1 5

<210> 322
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 322
His Leu His Ser Pro Ser Gly Trp
1 5

<210> 323
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 323
Thr Leu Pro His Arg Leu Asn Trp
1 5

<210> 324
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 324
Ser Ser Pro Arg Glu Val His Trp
1 5

<210> 325
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 325
Asn Gln Val Asp Thr Ala Arg Trp
1 5

<210> 326
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 326
Tyr Pro Thr Pro Leu Leu Thr Trp
1 5

<210> 327
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 327
His Pro Ala Ala Phe Pro Trp Trp
1 5

<210> 328
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 328
Leu Leu Pro His Ser Ser Ala Trp
1 5

<210> 329
<211> 8
<212> PRT

<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 329
Leu Glu Thr Tyr Thr Ala Ser Trp
1 5

<210> 330
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 330
Lys Tyr Val Pro Leu Pro Pro Trp
1 5

<210> 331
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 331
Ala Pro Leu Ala Leu His Ala Trp
1 5

<210> 332
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 332
Tyr Glu Ser Leu Leu Thr Lys Trp
1 5

<210> 333
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 333
Ser His Ala Ala Ser Gly Thr Trp
1 5

<210> 334
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 334
Gly Leu Ala Thr Val Lys Ser Trp
1 5

<210> 335
<211> 8
<212> PRT
<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal Trp residue

<400> 335
Gly Ala Thr Ser Phe Gly Leu Trp
1 5

<210> 336
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 336
Lys Pro Pro Gly Pro Val Ser Trp
1 5

<210> 337
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 337
Thr Leu Tyr Val Ser Gly Asn Trp
1 5

<210> 338
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 338
His Ala Pro Phe Lys Ser Gln Trp
1 5

<210> 339
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 339
Val Ala Phe Thr Arg Leu Pro Trp
1 5

<210> 340
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 340
Leu Pro Thr Arg Thr Pro Ala Trp
1 5

<210> 341
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 341
Ala Ser Phe Asp Leu Leu Ile Trp
1 5

<210> 342
<211> 8
<212> PRT

<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 342
Arg Met Asn Thr Glu Pro Pro Trp
1 5

<210> 343
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 343
Lys Met Thr Pro Leu Thr Thr Trp
1 5

<210> 344
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 344
Ala Asn Ala Thr Pro Leu Leu Trp
1 5

<210> 345
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 345
Thr Ile Trp Pro Pro Pro Val Trp
1 5

<210> 346
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 346
Gln Thr Lys Val Met Thr Thr Trp
 1   5

<210> 347
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 347
Asn His Ala Val Phe Ala Ser Trp
 1   5

<210> 348
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<221> VARIANT
<222> 5
<223> Xaa = any amino acid

<400> 348
Leu His Ala Ala Xaa Thr Ser Trp
 1   5

<210> 349
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 349
Thr Trp Gln Pro Tyr Phe His Trp
 1   5

<210> 350
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 350
Ala Pro Leu Ala Leu His Ala Trp
1 5

<210> 351
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 351
Thr Ala His Asp Leu Thr Val Trp
1 5

<210> 352
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 352
Asn Met Thr Asn Met Leu Thr Trp
1 5

<210> 353
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 353
Gly Ser Gly Leu Ser Gln Asp Trp
1 5

<210> 354
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal Trp residue

<400> 354
Thr Pro Ile Lys Thr Ile Tyr Trp
1 5

<210> 355
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 355
Ser His Leu Tyr Arg Ser Ser Trp
1 5

<210> 356
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 356
His Gly Gln Ala Trp Gln Phe Trp
1 5

<210> 357
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 357
Ser Ile Ile Asn Phe Glu Lys Leu
1 5

<210> 358
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 358
His Trp Asp Phe Ala Trp Pro Trp
1 5

<210> 359
<211> 8
<212> PRT
<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain

<400> 359
Asn Leu Leu Arg Leu Thr Gly Trp
1 5

<210> 360
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 360
Phe Tyr Gln Leu Ala Leu Thr Trp
1 5

<210> 361
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 361
Arg Lys Leu Phe Phe Asn Leu Arg Trp
1 5

<210> 362
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 362
Ala Leu Phe Asp Ile Glu Ser Lys Val
1 5

<210> 363
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 363
Ile Met Asp Gln Val Pro Phe Ser Val
1 5

<210> 364
<211> 9

<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 364
Tyr Met Asp Gly Thr Met Ser Gln Val
 1   5

<210> 365
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 365
Thr Leu Gly Ile Val Cys Pro Ile
 1   5

<210> 366
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 366
Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr
 1   5   10

<210> 367
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 367
Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly Asn Leu Leu Arg Leu
 1   5   10   15
Thr Gly Trp

<210> 368
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 368

Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly His Trp Asp Phe Ala

1 5 10 15

Trp Pro Trp

<210> 369
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 369
Ala Leu Phe Asp Ile Glu Ser Lys Val Gly Ser Gly His Trp Asp Phe
1 5 10 15
Ala Trp Pro Trp
20

<210> 370
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 370
Arg Gly Tyr Val Tyr Gln Gly Leu
1 5

<210> 371
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 371
Ile Met Asp Gln Val Pro Phe Ser Val Gly Ser Gly His Trp Asp Phe
1 5 10 15
Ala Trp Pro Trp
20

<210> 372
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 372
Ile Met Asp Gln Val Pro Phe Ser Val Gly Ser Gly Asn Leu Leu Arg
1 5 10 15

Leu Thr Gly Trp
20

<210> 373
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 373
Tyr Met Asp Gly Thr Met Ser Gln Val Gly Ser Gly His Trp Asp Phe
1 5 10 15
Ala Trp Pro Trp
20

<210> 374
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 374
His Trp Asp Phe Ala Trp Pro Trp Gly Ser Gly Tyr Met Asp Gly Thr
1 5 10 15
Met Ser Gln Val
20

<210> 375
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 375
Tyr Met Asp Gly Thr Met Ser Gln Val Gly Ser Gly Gly Ser Gly Asn
1 5 10 15
Leu Leu Arg Leu Thr Gly Trp
20

<210> 376
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 376
Thr Leu Gly Ile Val Cys Pro Ile Gly Ser Gly His Trp Asp Phe Ala
1 5 10 15
Trp Pro Trp

<210> 377
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 377
Thr Leu Gly Ile Val Cys Pro Ile Gly Ser Gly Gly Asn Leu Leu Arg
 1   5   10   15
Leu Thr Gly Trp
            20

<210> 378
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 378
Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr Gly Ser Gly His Trp Asp
 1   5   10   15
Phe Ala Trp Pro Trp
            20

<210> 379
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 379
His Trp Asp Phe Ala Trp Pro Trp Gly Ser Gly Ser Ile Ile Asn Phe
 1   5   10   15
Glu Lys Leu

<210> 380
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 380
Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly Asn Leu Leu Arg Leu
 1   5   10   15
Thr Gly Trp

<210> 381
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 381
Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly Phe Tyr Gln Leu Ala
 1   5   10   15
Leu Thr Trp

<210> 382
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 382
Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly Arg Lys Leu Phe Phe
 1   5   10   15
Asn Leu Arg Trp
            20

<210> 383
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 383
Asn Leu Leu Arg Leu Thr Gly Trp Gly Ser Gly Ser Ile Ile Asn Phe
 1   5   10   15
Glu Lys Leu

<210> 384
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 384
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ser Ile Ile Asn
 1   5   10   15
Phe Glu Lys Leu
            20

<210> 385
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 385
Asn Leu Leu Arg Leu Thr Gly Trp Arg Lys Ser Ile Ile Asn Phe Glu
 1   5   10   15
Lys Leu

<210> 386
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 386
Asn Leu Leu Arg Leu Thr Gly Trp Gly Ser Gly Arg Gly Tyr Val Tyr
 1   5   10   15
Gln Gly Leu

<210> 387
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 387
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Arg Gly Tyr Val
 1   5   10   15
Tyr Gln Gly Leu
            20

<210> 388
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 388
Asn Leu Leu Arg Leu Thr Gly Trp Arg Lys Arg Gly Tyr Val Tyr Gln
 1   5   10   15
Gly Leu

<210> 389
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 389
Glu Leu Ala Gly Ile Gly Ile Leu Thr Val
 1   5   10

<210> 390
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 390
Ser Leu Leu Met Trp Ile Thr Gln Val
 1   5

<210> 391
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 391
Ser Val Tyr Asp Phe Phe Val Trp Leu
 1   5

<210> 392
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 392
Gly Leu Tyr Asp Gly Met Glu His Leu
 1   5

<210> 393
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 393

Tyr Leu Glu Pro Gly Pro Val Thr Val
1 5

<210> 394
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 394
Lys Ala Ser Glu Lys Ile Phe Tyr Val
1 5

<210> 395
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 395
Glu Leu Ala Gly Ile Gly Ile Leu Thr Val Gly Ser Gly Asn Leu Leu
1 5 10 15
Arg Leu Thr Gly Trp
20

<210> 396
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 396
Ser Leu Leu Met Trp Ile Thr Gln Val Gly Ser Gly Asn Leu Leu Arg
1 5 10 15
Leu Thr Gly Trp
20

<210> 397
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 397
Ser Val Tyr Asp Phe Phe Val Trp Leu Gly Ser Gly Asn Leu Leu Arg
1 5 10 15
Leu Thr Gly Trp
20

<210> 398
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 398
Gly Leu Tyr Asp Gly Met Glu His Leu Gly Ser Gly Asn Leu Leu Arg
 1   5   10   15
Leu Thr Gly Trp
            20

<210> 399
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 399
Tyr Leu Glu Pro Gly Pro Val Thr Val Gly Ser Gly Asn Leu Leu Arg
 1   5   10   15
Leu Thr Gly Trp
            20

<210> 400
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 400
Lys Ala Ser Glu Lys Ile Phe Tyr Val Gly Ser Gly Asn Leu Leu Arg
 1   5   10   15
Leu Thr Gly Trp
            20

<210> 401
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 401
Ala Leu Lys His Arg Ala Tyr Glu Leu
 1   5

<210> 402

<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 402
Ile Leu Lys Glu Pro Val His Gly Val
 1   5

<210> 403
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 403
Ser Leu Phe Asn Thr Val Ala Thr Leu
 1   5

<210> 404
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 404
Val Leu Asp Val Gly Asp Ala Tyr Phe Ser Val
 1   5   10

<210> 405
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 405
Val Ile Tyr Gln Tyr Met Asp Asp Leu
 1   5

<210> 406
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 406
Ser Leu Tyr Asn Thr Val Ala Thr Leu

1 5

<210> 407
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 407
Ala Ile Ile Arg Ile Leu Gln Gln Leu
1 5

<210> 408
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 408
Ala Phe His His Val Ala Arg Glu Leu
1 5

<210> 409
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 409
Ala Leu Lys His Arg Ala Tyr Glu Leu Gly Ser Gly Asn Leu Leu Arg
1 5 10 15
Leu Thr Gly Trp
20

<210> 410
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 410
Ile Leu Lys Glu Pro Val His Gly Val Gly Ser Gly Asn Leu Leu Arg
1 5 10 15
Leu Thr Gly Trp
20

<210> 411
<211> 20

<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 411
Ser Leu Phe Asn Thr Val Ala Thr Leu Gly Ser Gly Asn Leu Leu Arg
 1   5   10   15
Leu Thr Gly Trp
            20

<210> 412
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 412
Val Leu Asp Val Gly Asp Ala Tyr Phe Ser Val Gly Ser Gly Asn Leu
 1   5   10   15
Leu Arg Leu Thr Gly Trp
            20

<210> 413
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 413
Val Ile Tyr Gln Tyr Met Asp Asp Leu Gly Ser Gly Asn Leu Leu Arg
 1   5   10   15
Leu Thr Gly Trp
            20

<210> 414
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 414
Ser Leu Tyr Asn Thr Val Ala Thr Leu Gly Ser Gly Asn Leu Leu Arg
 1   5   10   15
Leu Thr Gly Trp
            20

<210> 415
<211> 20
<212> PRT

<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 415
Ala Ile Ile Arg Ile Leu Gln Gln Leu Gly Ser Gly Asn Leu Leu Arg
 1   5   10   15
Leu Thr Gly Trp
            20

<210> 416
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 416
Ala Phe His His Val Ala Arg Glu Leu Gly Ser Gly Asn Leu Leu Arg
 1   5   10   15
Leu Thr Gly Trp
            20

<210> 417
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 417
Asn Leu Leu Arg Leu Thr Gly Trp
 1   5

<210> 418
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
      Trp residue

<400> 418
Phe Tyr Gln Leu Ala Leu Tyr Trp
 1   5

<210> 419
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal

Trp residue

<400> 419
Arg Lys Leu Phe Phe Asn Leu Arg Trp
 1   5